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Mondshine et al.

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[54] **PROCESS AND COMPOSITION TO ENHANCE REMOVAL OF POLYMER-CONTAINING FILTER CAKES FROM WELLBORES**

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[52] U.S. Cl. **166/300;** 166/307; 166/312; 252/8.552; 252/8.553

[58] Field of Search 166/281, 291, 300, 307, 166/312; 252/8.551, 8.552, 8.553

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[57] **ABSTRACT**

The invention provides a process for the removal of filter cakes containing one or more polysaccharide polymers and bridging particles from the sides of a borehole in a hydrocarbon-producing formation which comprises contacting the filter cake with a novel soak solution comprising an aqueous liquid, a peroxide selected from the group consisting of alkaline earth metal peroxides, zinc peroxide, and mixtures thereof, and an acidic substance to provide the soak solution with a pH in the range from about 1 to about 8, and optionally, an activator for the peroxide, for a period of time at least sufficient to decompose the polysaccharide polymers therein to such an extent that the filter cake forms a loosely adherent mass on the sides of the borehole, and thereafter contacting the filter cake with a wash solution in which the bridging particles are soluble to remove the remaining filter cake solids from the sides of the borehole. Preferably the aqueous liquid in the soak solution has no appreciable solubilizing effect on the bridging particles.

11 Claims, No Drawings